

Active Recombinant Human CD47 protein, Fc/Avi-tagged, Biotinylated

Cat. No. CD47-7890H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human CD47 (Gln 19 - Pro 139) fused with human IgG1 Fc fragment at the C-terminus, followed by an Avi tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Gln 19 - Pro 139
Predicted N Terminal	Gln 19
Form	Lyophilized from 0.22m filtered solution in 50 mM tris, 100 mM glycine (pH7.5) with 10% Trehalose as protectant.
Bio-activity	Immobilized Human SIRP alpha Protein, His Tag at 2 µg/mL (100 µL/well) can bind Biotinylated Human CD47 Protein, Fc Tag with a linear range of 8-250 ng/mL.
Molecular Mass	The protein has a calculated MW of 42.2 kDa. The protein migrates as 50 kDa on a SDS-PAGE gel under reducing condition due to glycosylation. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.

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Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in sterile deionized water. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the COA.
Conjugation	Biotin
GENE INFORMATION	
Gene Name	CD47 CD47 molecule [Homo sapiens]
Official Symbol	CD47
Synonyms	CD47; CD47 molecule; CD47 antigen (Rh related antigen, integrin associated signal transducer) , MER6; leukocyte surface antigen CD47; antigen identified by monoclonal 1D8; antigenic surface determinant protein OA3; CD47 glycoprotein; IAP; integrin associated protein; OA3; Rh related antigen; Rh-related antigen; integrin-associated protein; integrin-associated signal transducer; CD47 antigen (Rh-related antigen, integrin-associated signal transducer); MER6;
Gene ID	961
mRNA Refseq	NM_198793
Protein Refseq	NP_942088
MIM	601028

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UniProt ID	Q08722
Chromosome Location	3q13.1-q13.2
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Hemostasis, organism-specific biosystem; Integrins in angiogenesis, organism-specific biosystem; Signal regulatory protein (SIRP) family interactions, organism-specific biosystem;
Function	protein binding; thrombospondin receptor activity;

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